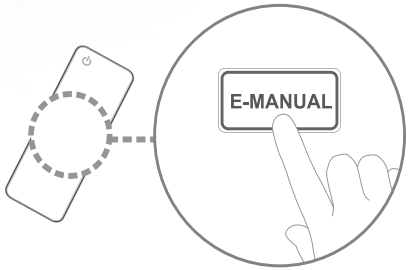
SAMSUNG

E-MANUAL



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Model _____ Serial No. _____

Contents

Channel

- Using the INFO button (Now & Next guide) 1
- Using Channel menu 2
- Memorizing Channels 16
- Other Features 18

Basic Features

- Changing the Preset Picture Mode 20
- Adjusting Picture Settings 21
- Changing the Picture Options 27
- Changing the Preset Sound Mode 34
- Adjusting Sound Settings 35

Preference Features

- Setting the Time 41
- Using the Sleep Timer 43
- Setting the On / Off Timer 44
- Locking Programs 47
- Picture In Picture (PIP) 49
- Economical Solutions 51
- Other Features 53
- Support Menu 59

Advanced Features

- Using the My Contents 66
- Connecting a USB Device 67
- Screen Display 72
- Music 73
- Photos 75
- My Contents - Additional Functions 76

Other Information

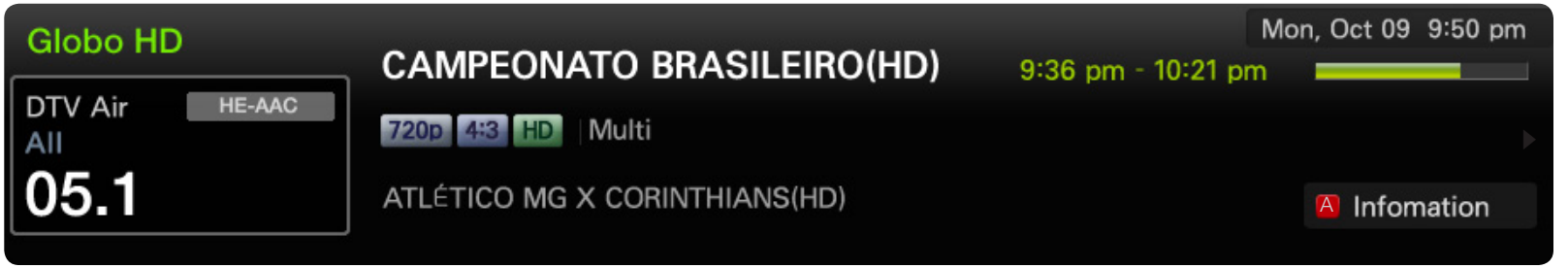
- Troubleshooting 79
- Anti-theft Kensington Lock 96
- License 98

❑ Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV program information for each channel according to the broadcasting time.

- Scroll ◄, ► to view information for a desired program while watching the current channel.



- The displayed image may differ depending on the model.

❑ Using Channel menu

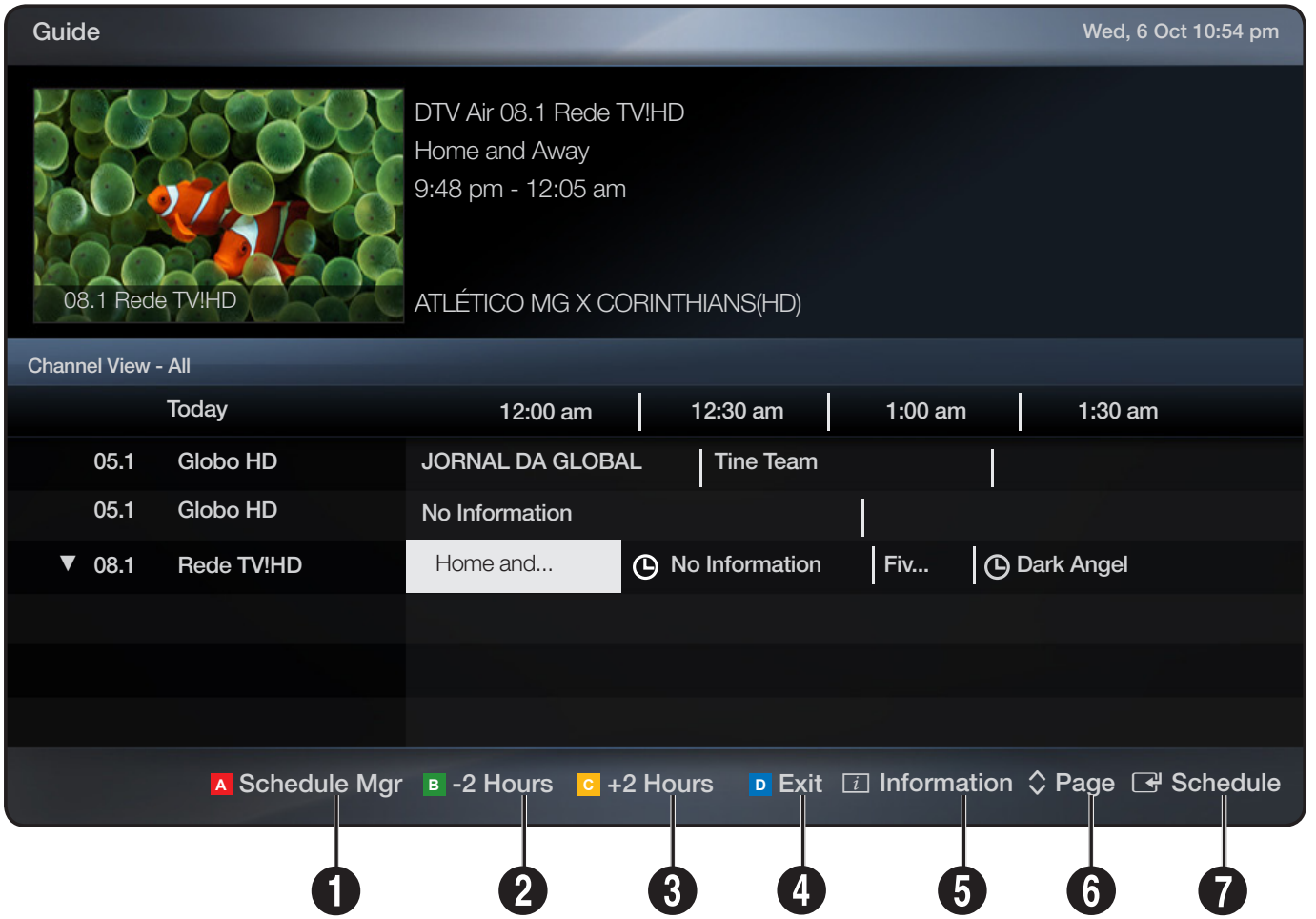
Press the **CONTENT** button to select **Watch TV**, then select the desired menu. Each screen will be displayed.

■ Guide

The EPG (Electronic Program Guide) information is provided by broadcasters. Using program schedules provided by broadcasters, you can specify programs you want to watch in advance so that the channel automatically changes to the selected program channel at the specified time. Program entries may appear blank or out of date depending on a channel status.

● The displayed image may differ depending on the model.

Using Guide



- The displayed image may differ depending on the model.

1. A Red (**Schedule Mgr**): Moves to the **Schedule List** in **Schedule Manager**.
2. B Green (**-2 Hours**): Viewing the list of programs to be broadcasted before 2 hours.
3. C Yellow (**+2 Hours**): Viewing the list of programs to be broadcasted after 2 hours.
4. D Blue (**Exit**): Exits the guide.
5. [i] (**Information**): Displays details of the selected program.
6. ⇕ (**Page**): Move to previous or next page.
7. ↵ (**Watch / Schedule**)
   - When selecting the current program, you can watch the selected program.
   - When selecting the future program, you can reserve to watch the selected program. To cancel the schedule, press the **ENTER**↵ button again and select **Cancel Schedules.**

Schedule Manager

Cancel or set the **Timer Viewing** to display the channel you want at the intended time.

Using Timer Viewing

You can set a desired channel to be displayed automatically at the intended time. Set the current time first to use this function.

1. Press the **ENTER** button to add manual booking.
2. Press the ◄/►/▲/▼ button to set the **Antenna**, **Channel**, **Repeat**, **Date**, **Start Time**.
   - **Antenna**: Select the desired broadcasting signal.
   - **Channel**: Select the desired channel.

- **Repeat**: Select **Once**, **Manual**, **Sat~Sun**, **Mon~Fri** or **Everyday** to set at your convenience. If you select **Manual**, you can set the day you want.

  The (✓) mark indicates the day you've selected.

- **Date**: You can set the desired date.

  It is available when you select **Once** in **Repeat**.

- **Start Time**: You can set the start time you want.

If you want to edit or cancel the schedule, select the reserved schedule on the **Schedule List**, and select the **Edit** or **Cancel Schedules**.

Channel List

You can view channel information, **Added Channels** or **Favorites 1**-**5**.

When you press the **CH LIST** button on the remote control, **Channel List** screen will be displayed at once.

- **Added Channels**: Shows all added channels.
- **Favorites 1**-**5**: Shows all favorite channels.

  Favorites 1-**5** will be displayed when you set **Add to Favorites**.

  If you want to view favorite channels you added, press the **CH LIST** button and use ◀▶ (**CH Mode**) button to move **Favorites 1**-**5**.

● The displayed image may differ depending on the model.

Using the color buttons with the **Channel List**.

- A Red (**Antenna**): Switches to **Air** or **Cable**.
- C Yellow (**Program View / Channel View**):

  Displays the program when digital channel is selected. Returns to the channel view.

- ◀▶ (**CH Mode / Channel**): Move to the **Favorites 1-5** when **Add to Favorites** is set. / Change channels.

  When you press the C (**Program View**) button, you can move to other channels using ◀▶ (**Channel**) button.

- (**Watch / Information**): Press to watch the channel you selected. / Displays details of the selected program.
- ▲▼ (**Page**): Move to next or previous page.

Channel Status Display Icons

Icon	Operations
A	An analog channel.
	A reserved program.
	A locked channel.

How to use Timer Viewing in Channel List (digital channels only)

When you set the **Timer Viewing** in **Channel List**, you can only set the program in **Program View**.

1. Press the **CH LIST** button, then select a desired digital channel.
2. Press the C (**Program View**) button.
3. Press the ▲ / ▼ buttons to select the desired program, then press the **ENTER** ↵ (**Information**) or **INFO** button.
4. Select **Timer Viewing**, then press the **ENTER** ↵ button when done.

If you want to cancel **Timer Viewing**, follow steps 1 through 3. Select **Cancel Schedules**.

Channel Manager

You can edit the channel to your preference.

- ( ) **Added Ch.**: Shows all added channels.
- ( ) **All Channels**: Shows all currently available channels.
- ( ) **Favorites 1**-**5**: Shows favorite channels.

● The displayed image may differ depending on the model.

Using the color buttons with the **Channel Manager**.

- **A** Red (**Antenna**): Switches to **Air** or **Cable**.
- **D** Blue (**Sorting**): Changes the list ordered by channel number or channel name.

Channel Status Display Icons

Icon	Operations
A	An analog channel.
✓	A channel selected.
★	A channel set as a favorite.
🔒	A locked channel.
	Displays the **Channel Manager** option menu.

Channel Manager Option Menu TOOLS

Set each channel using the **Channel Manager** menu options (**Watch**, **Add to Favorites /Edit Favorites**, **Lock/Unlock**, **Channel Name Edit**, **Add/Delete**, **Deselect All**, **Select All**). Option menu items may differ depending on the channel status.

1. Select a channel and press the **TOOLS** button.
2. Select a function and change its settings.

- **Watch**: Watch the selected channel.
- **Add to Favorites / Edit Favorites**: Set channels you watch frequently as favorites. / Add or Delete the selected channel in **Favorites 1-5**.

    1. Select the **Add to Favorites** / **Edit Favorites**, then press the **ENTER** button.

        If the channel is already added to favorite channel, **Edit Favorites** will be shown.

    2. Press the **ENTER** button to select **Favorites 1-5**, then press the **OK** button.

        One favorite channel can be added in several of favorites among **Favorites 1-5**.

- **Lock / Unlock**: Lock a channel so that the channel cannot be selected and viewed.

  NOTE

  - This function is available only when the **Channel Lock** is set to **On**.
  - The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0”. Change the PIN using the **Change PIN** option.

- **Channel Name Edit** (analog channels only): Assign your own channel name.

- **Add / Delete**: Delete or add a channel to display the channels you want.

  NOTE

  - All deleted channels will be shown on the **All Channels** menu.
  - A gray-colored channel indicates the channel has been deleted.
  - The **Add** menu only appears for deleted channels.

- **Deselect All**: Deselect all the selected channels.

  You can only select **Deselect All** when one or more channels are selected.

- **Select All**: Select all the channels in the channel list.

❑ Memorizing channels

MENU → Channel → ENTER

■ Antenna (Air / Cable) TOOLS

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

Auto Program

Scans for a channel automatically and stores in the TV.

- **Air**: Air antenna signal.
- **Cable**: Cable antenna signal.

NOTE

- Automatically allocated program numbers may not correspond to actual or desired program numbers. If a channel is locked, the PIN input window appears.
- If the antenna is connected to ANT 2 IN (CABLE), select **Cable** and if it is connected to ANT 1 IN (AIR), select **Air**.
- If both ANT 1 IN and ANT 2 IN are connected, select both **Air** and **Cable**.

How to Stop Auto Programming

1. Press the **ENTER** button.
2. A message will ask **Stop Auto Program?** Select **Yes** by pressing the ◀ or ▶ button.
3. Press the **ENTER** button.

❑ Other Features

■ Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- Select **Fine Tune** in the **Channel** menu.

Fine tuned channels that have been saved are marked with an asterisk “*” on the right-hand side of the channel number in the channel banner.

To reset the fine-tuning, select **Reset**.

Color System (Auto / PAL-M / PAL-N / NTSC)

Normally the TV can receive image and sound with good quality in **Auto** mode. This mode detects the color signal sources automatically. If the color implementation is unsatisfactory, select any of **PAL-M**, **PAL-N** or **NTSC**.

❑ Changing the Preset Picture Mode

MENU → Picture → Picture Mode → ENTER

■ Picture Mode TOOLS

Select your preferred picture type.

When connecting a PC, you can only make changes to the **Entertain** and **Standard**.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Natural** for 5 series: Suitable for an eye comfortable display.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain**: Suitable for watching movies and games.

  It is only available when connecting a PC.

❑ Adjusting picture settings

■ Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Your television has several setting options for picture quality control.

NOTE

- When you make changes to **Backlight, Contrast, Brightness, Sharpness, Color** or **Tint (G/R)** the OSD will be adjusted accordingly.
- Settings can be adjusted and stored for each external device connected to the TV.
- When connecting a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.
- Lowering picture brightness reduces power consumption.

Screen Adjustment

Set the various picture options such as picture size and aspect ratio.

- **Picture Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.

  16:9: Sets the picture to 16:9 wide mode.

  Zoom1: Use for moderate magnification.

  Zoom2: Use for a stronger magnification.

  Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.

  4:3: Sets the picture to basic (4:3) mode.

  Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

Smart View1 for 5 series : Reduces original screen by 50%.

Smart View2 for 5 series : Reduces original screen by 25%.

NOTE

- **Smart View1** is enabled only in HDMI mode.
- **Smart View2** is enabled only in DTV and HDMI modes.

- **Position**: Adjust the picture position. It is only available in **Zoom1**, **Zoom2** or **Wide Fit** .

  After selecting **Zoom1**, **Zoom2** or **Wide Fit**, select **Position**. Follow the steps below in the **Position** screen.

  1. Select the **Position**, press the **ENTER** button.
  2. Press the ▲ or ▼ button to move the picture up or down.
  3. Press the **ENTER** button.

After selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you may need to center the picture. Select **Position**, then follow the steps below in the **Position** screen.

1. Select the **Position**, press the **ENTER** button.
2. Press the ▲, ▼, ◄ or ► button to move the picture.
3. Press the **ENTER** button.

If you want to reset the position you adjusted, select **Reset** in the **Position** screen. The picture will be set to its default position.

- HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)
- Settings can be adjusted and stored for each external device you have connected to an input on the TV.

Input Source	Picture Size
ATV	**16:9, Zoom1, Zoom2, 4:3**
Component (480i, 480p, 576i, 576p)	**16:9, Zoom1, Zoom2, 4:3**
DTV (720p, 1080i, 1080p)	**16:9, Wide Fit, 4:3, Screen Fit, Smart View2**
Component (720p, 1080i, 1080p)	**16:9, Wide Fit, 4:3, Screen Fit**
HDMI (720p, 1080i, 1080p)	**16:9, Wide Fit, 4:3, Screen Fit, Smart View1, Smart View2**

❑ Changing the Picture Options

■ Advanced Settings

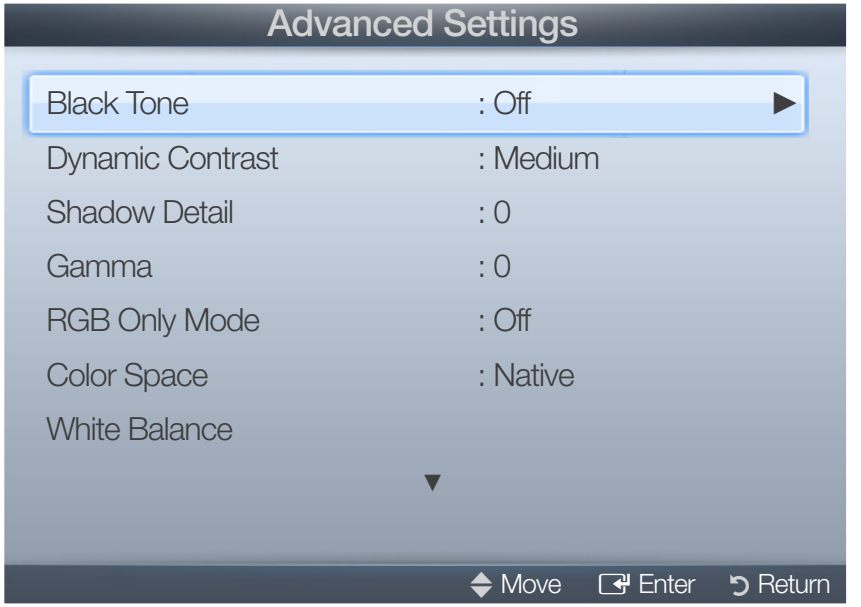
MENU → Picture → Advanced Settings → ENTER

(available in Standard / Movie mode)

Compared to previous models, new Samsung TVs have more precise pictures.

When connecting a PC, you can only make changes to Gamma and White Balance.

- Black Tone (Off / Dark / Darker / Darkest): Select the black level to adjust the screen depth.



● The displayed image may differ depending on the model.

- **Dynamic Contrast (Off / Low / Medium / High)**: Adjust the screen contrast.
- **Shadow Detail**: Increase the brightness of dark images.
- **Gamma**: Adjust the primary color intensity.
- **RGB Only Mode (Off / Red / Green / Blue)**: Display the Red, Green and Blue color for making fine adjustments to the hue and saturation.
- **Color Space (Auto / Native)**: Adjust the range of colors available to create the image.

- **White Balance**: Adjust the color temperature for a more natural picture.

  R-Offset / G-Offset / B-Offset: Adjust each color's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjust each color's (red, green, blue) brightness.

  Reset: Reset the **White Balance** to its default settings.
- **Flesh Tone**: Emphasize pink "Flesh Tone".
- **Edge Enhancement (Off / On)**: Emphasize object boundaries.
- **Motion Lighting (Off / On)**: Reduce power consumption by brightness control adapted motion.
- **LED Motion Plus (Off / On)** for LED 5 series 40 inches: Remove drag from fast scenes with a lot of movement to provide a clear picture.

Picture Options

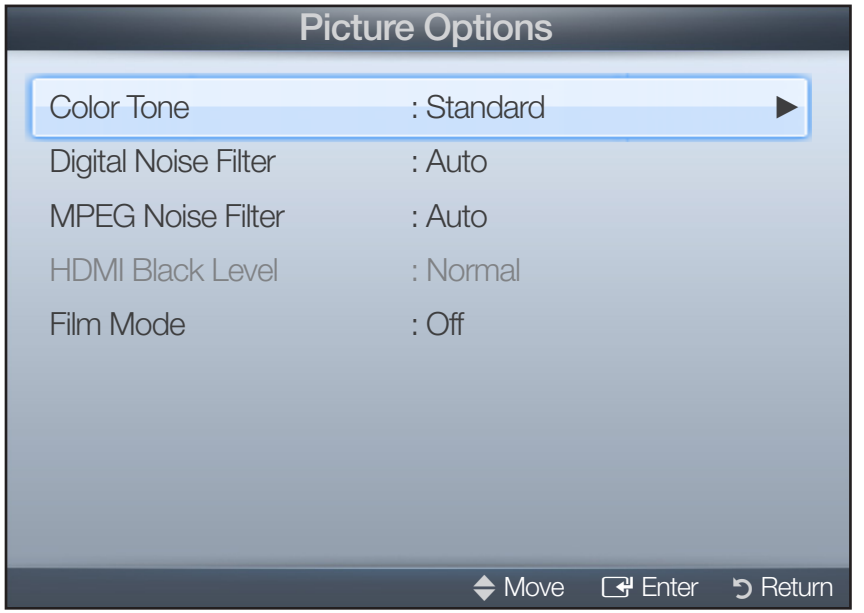
MENU → Picture → Picture Options → ENTER

When connecting a PC, you can only make changes to the **Color Tone**.

- **Color Tone (Cool / Standard / Warm1 / Warm2)**

  Warm1 or **Warm2** will be deactivated when the picture mode is **Dynamic**.

  Settings can be adjusted and stored for each external device connected to an input on the TV.



● The displayed image may differ depending on the model.

- **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualization)**: If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

  When the signal is weak, try other options until the best picture is displayed.

  Auto Visualization: When changing analog channels, displays signal strength.

  Only available for analog channels.

  When bar is green, you are receiving the best possible signal.

- **MPEG Noise Filter (Off / Low / Medium / High / Auto)**: Reduces MPEG noise to provide an improved picture quality.

- **HDMI Black Level (Low / Normal)**: Selects the black level on the screen to adjust the screen depth.

  Available only in **HDMI** mode (RGB signals).

- **Film Mode (Off / Auto1 / Auto2)**: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

  Available in TV mode, COMPONENT (480i / 1080i) and HDMI (1080i).

Reset Picture (OK / Cancel)

Resets your current picture mode to its default settings.

❑ Changing the Preset Sound Mode

MENU → Sound → Sound Mode → ENTER

■ Sound Mode TOOLS

- Standard: Selects the normal sound mode.
- Music: Emphasizes music over voices.
- Movie: Provides the best sound for movies.
- Clear Voice: Emphasizes voices over other sounds.
- Amplify: Increases the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

❑ Adjusting Sound Settings

MENU → Sound → Sound Effect → ENTER

■ Sound Effect

(standard sound mode only)

Use the up and down arrow keys to select an option, and then press **ENTER**.

- **SRS TruSurround HD (Off / On)** TOOLS

  This function provides a virtual 5.1 channel surround sound experience through a pair of speakers or headphones using HRTF (Head Related Transfer Function) technology.

- **SRS TruDialog (Off / On)**

  This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- **Equalizer**

  Use **Equalizer** to customize sound setting for each speaker.

  Balance: Adjusts the balance between the right and left speaker.

  100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.

  Reset: Resets the equalizer to its default settings.

Broadcast Audio Options

- **Audio Language** TOOLS

  (digital channels only)

  Change the default value for audio languages.

  The available language may differ depending on the broadcast.

- **Multi-Track Sound (MTS)** TOOLS

  (analog channels only)

  Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

  Stereo: Choose for channels that are broadcasting in stereo.

  SAP: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.

  Depending on the particular program being broadcast, you can listen to **Mono, Stereo** or **SAP**.

Speaker Settings

- **Auto Volume (Off / Normal / Night)**

  To equalize the volume level on each channel, set to **Normal**.

  Night: This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night.

  To use the volume control on the source device connected to the TV, set **Auto Volume** to **Off** on the TV. Otherwise, a change to the volume control of the source device may not be applied.

Reset Sound (OK / Cancel)

Resets your current sound mode to its default settings.

❑ Setting the Time

MENU → System → Time → ENTER

■ Time

The current time will appear every time you press the **INFO** button.

- **Clock**: Setting the clock is for using various timer features of the TV.

  If you disconnect the power cord, you have to set the clock again.

  Clock Mode: Set up the current time manually or automatically.

  - **Auto**: Set the current time automatically using the time from a digital channel.

    The antenna must be connected in order to set the time automatically.

- **Manual**: Set the current time manually.

Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

Clock Set: Set the **Day**, **Month**, **Year**, **Hour**, **Minute** and **am/pm**.

Available only when **Clock Mode** is set to Manual.

You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.

Time Zone: Select your time zone.

This function is only available when the **Clock Mode** is set to **Auto**.

❑ Using the Sleep Timer

MENU → System → Time → Sleep Timer → ENTER

- Sleep Timer TOOLS: Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

  To cancel the Sleep Timer, select Off.

❑ Setting the On/Off Timer

MENU → System → Time → On Timer <or> Off Timer → ENTER

- **On Timer**: Three different on timer settings can be made. You must set the clock first.

  Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

  The ✓ mark indicates the day you've selected.

  On Time: Set the hour and minute, am/pm.

  Volume: Set the desired volume level.

● The displayed image may differ depending on the model.

Source: Select **TV** or **USB** content to be played when the TV is turned on automatically. (USB can be selected only when a USB device is connected to the TV)

Antenna (when the **Source** is set to **TV**): Select **Air** or **Cable**.

Channel (when the **Source** is set to **TV**): Select the desired channel.

Music / Photo (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

- If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
- When there is only one photo file in the USB, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

It is recommended that you use a USB memory stick and a multi card reader when using **On Timer**.

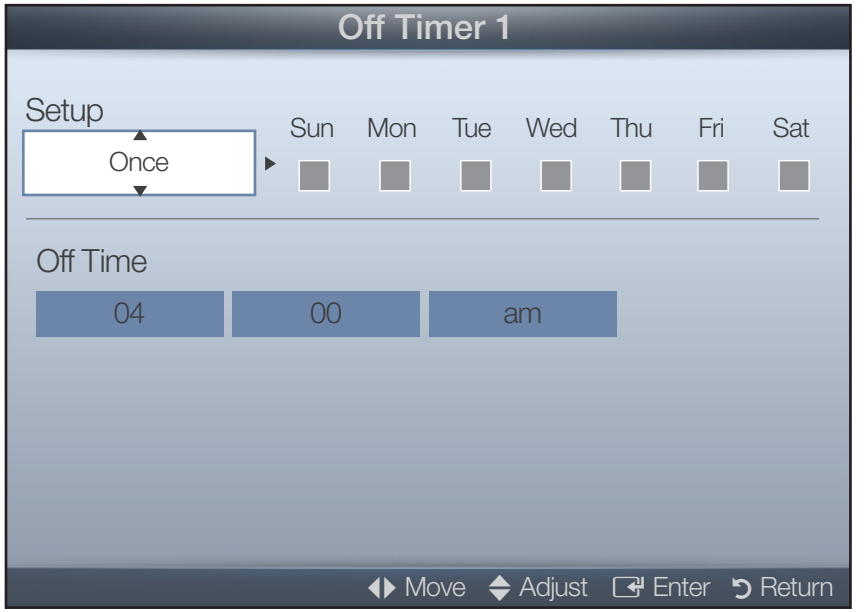
The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because these devices take a long time to be recognized.

- **Off Timer**: Three different off timer settings can be made. You must set the clock first.

  Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at your convenience. If you select Manual, you can set up the day you want to activate the timer.

  The ✓ mark indicates the day the day you've selected.

  Off Time: Set the hour and minute, am/pm.



● The displayed image may differ depending on the model.

❑ Locking Programs

MENU → System → Security → ENTER

■ Security

The PIN input screen appears before the setup screen.

Enter your 4-digit PIN, the default of which is 0-0-0-0. Change the PIN using the Change PIN option.

- **Channel Lock (Off / On)**: Lock channels in **Channel Manager**, to prevent unauthorized users, such as children, from watching unsuitable program.
- **Program Rating Lock**: Prevent unauthorized users, such as children, from watching unsuitable program with a user defined 4-digit PIN code.

  The items of **Program Rating Lock** differs depending on the country.

- **Change PIN**: The **Change PIN** screen will appear. Choose any 4 digits for your PIN and enter it in the **Enter New PIN**. Re-enter the same 4 digits in the **Confirm New PIN**. When the Confirm screen appears, press the **OK** button. Your PIN has been memorized.

  If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0” : **POWER** (off) → **MUTE** → 8 → 2 → 4 → **POWER** (on)

❑ Picture In Picture (PIP)

MENU → System → PIP → ENTER

■ PIP TOOLS

You can watch the TV tuner and one external video source simultaneously. PIP (Picture-in-Picture) does not function in the same mode.

NOTE

- For PIP sound, refer to the Sound Select instructions.
- If you turn the TV off while watching in PIP mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

- PIP Settings

Main picture	Sub picture
Component, HDMI	TV

  - **PIP (Off / On)**: Activate or deactivate the PIP function.
  - **Air/Cable (Air / Cable)**: Select either **Air** or **Cable** as the input source for the sub-screen.
  - **Channel**: Select the channel for the sub-screen.
  - **Size** (/): Select a size for the sub-picture.
  - **Position** (/ / /): Select a position for the sub-picture.
  - **Sound Select (Main / Sub)**: You can choose the desired sound (**Main** or **Sub**) in **PIP** mode.

❑ Economical Solutions

■ Eco Solution

- **Energy Saving (Off / Low / Medium / High / Picture Off)** TOOLS: This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
- **Eco Sensor (Off / On)** for 5 series 40 inches: To enhance your power savings; the picture settings will automatically adapt to the light in the room.

  If you adjust the **Backlight,** the **Eco Sensor** will be set to **Off**.

  Min Backlight: When **ECO sensor** is **On**, the minimum screen brightness can be adjusted manually.

  If **Eco Sensor** is **On**, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity.

- **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.)**: Sets how quickly the TV switches to standby mode, if no picture is being received.
- **Auto Power Off (Off / On)**: The TV will be automatically turned off when no user operation is received for 4 hours.

❑ Other Features

MENU → System → ENTER

■ Menu Language

Set the menu language.

1. Select Menu Language and press the ENTER button.
2. Choose desired language and press the ENTER button.

   Choose between English, Português and Español.

Caption

(On-Screen Text Messages)

- **Caption (Off / On)**: You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

  Caption feature is not available when connecting the PC or Component, **HDMI** mode.

- **Caption Mode**: You can select the desired caption mode.

  The availability of captions depends on the program being broadcasted.

  CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

Auto Protection Time

- **Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours)**: If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

General

- **Game Mode (Off / On)**: When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience selecting the game menu.

  NOTE

  - Precautions and limitations for game mode
    - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
    - If you display the TV menu in **Game Mode**, the screen shakes slightly.

- **Game Mode** is not available when the input source is set to TV or HDMI/DVI (connecting a PC).
- After connecting the game console, set **Game Mode** to **On**. Unfortunately, you may notice reduced picture quality.
- If **Game Mode** is **On**:
  - **Picture Mode** is set to **Standard** and **Sound Mode** is set to **Movie**.

- **Menu Transparency (Bright / Dark)**: Set the Transparency of the menu.
- **Boot Logo (Off / On)**: Display Samsung logo when the TV is turned on.
- **AV Color System (Auto / PAL-M / PAL-N / NTSC)**: Normally the TV can receive image and sound with good quality when in the mode **Auto**. This mode detects the signal color system automatically. In case of some signal reception with color unsatisfactory, select the **AV Color System** Mode to **PAL-M, PAL-N** or **NTSC**.

❑ Support Menu

MENU → Support→ e-Manual → ENTER

■ e-Manual

You can read the introduction and instructions about the TV features stored in your TV.

For the detailed information about e-Manual Screen, refer to “How to use the e-Manual” in User Manual.

Self Diagnosis

- **Picture Test (Yes / No)**: Use to check for picture problems. If the problem continues to occur, check the Color pattern.

  Yes: If the test picture does not appear or there is noise in the test pattern, select **Yes**. There may be a problem with the TV. Contact Samsung's Call Center for assistance.

  No: If the test pattern is properly displayed, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Sound Test (Yes / No)**: Use the built-in melody sound to check for sound problems.

  Yes: If you can hear sound only from one speaker or not at all during the sound test, select **Yes**. There may be a problem with the TV. Contact Samsung's Call Center for assistance.

  No: If you can hear sound from the speakers, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Signal Information**: (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- **Troubleshooting**: If the TV seems to have a problem, refer to this description.

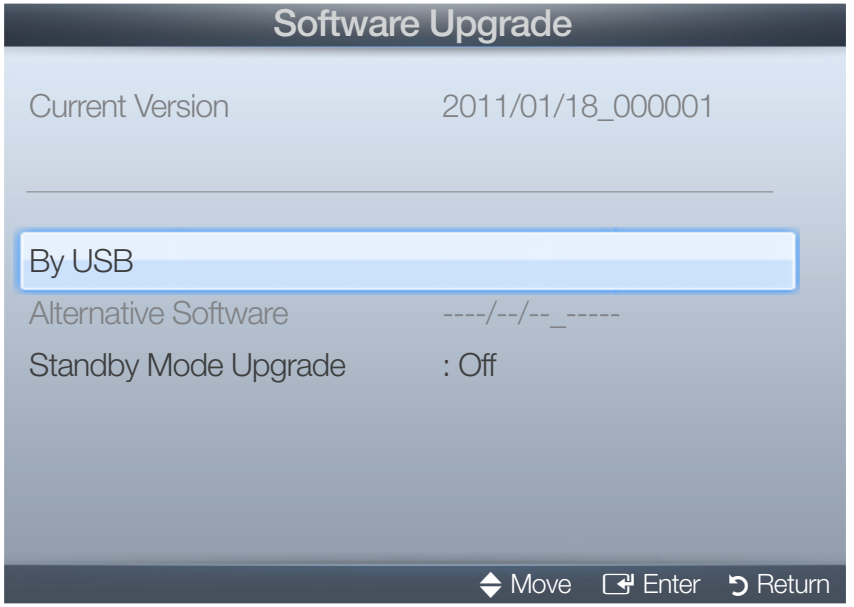
  If none of these troubleshooting tips apply, contact the Samsung customer service center.

Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from “www.samsung.com” to a USB memory device.

Current Version - the software already installed in the TV.

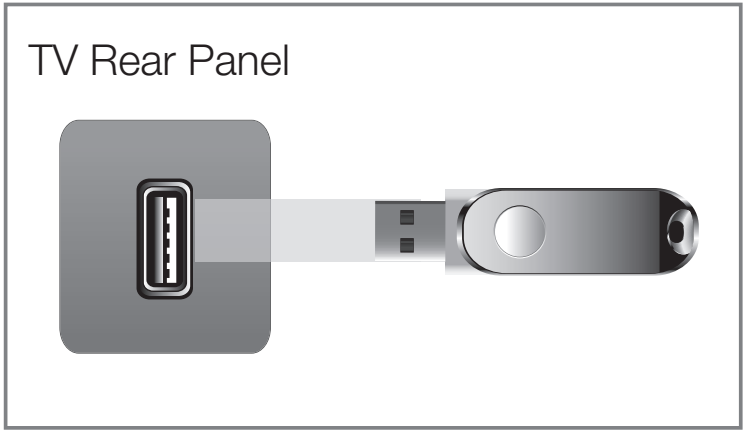
Software is represented as ‘Year/Month/Day_Version’.



● The displayed image may differ depending on the model.

Installing the Latest Version

- **By USB**: Insert a USB drive containing the firmware upgrade file, downloaded from www.samsung.com, into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.



* It may differ depending on the model.

- **Alternative Software** (backup): If there is an issue with the new firmware and it is affecting operation, you can change the software to the previous version.

Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers, and how to download products and software.

❑ Using the My Contents

Enjoy photos, music files saved on a USB Mass Storage Class (MSC) device.

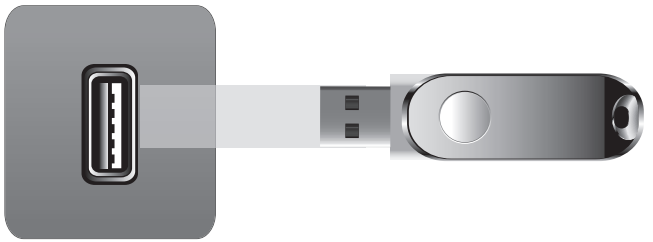
1. Press the **CONTENT** button to select **My Contents**.
2. Press ▲/▼ button to select desired menu (**Photos**, **Music**), then press the **ENTER** ↵ button.

● The displayed image may differ depending on the model.

❑ Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo and music files to the **USB** jack on the side of the TV.
3. When USB is connected to the TV, popup window appears. Then you can select **Connected Device**.

TV Rear Panel



* It may differ depending on the model.

It might not work properly with unlicensed multimedia files.

Need-to-Know List before using **My Contents**

- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera may not be compatible with this TV.
- **My Contents** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the “Not Supported File Format” message is displayed.
- If the files are sorted by **Folder View**, up to 1000 files can be displayed in each folder.

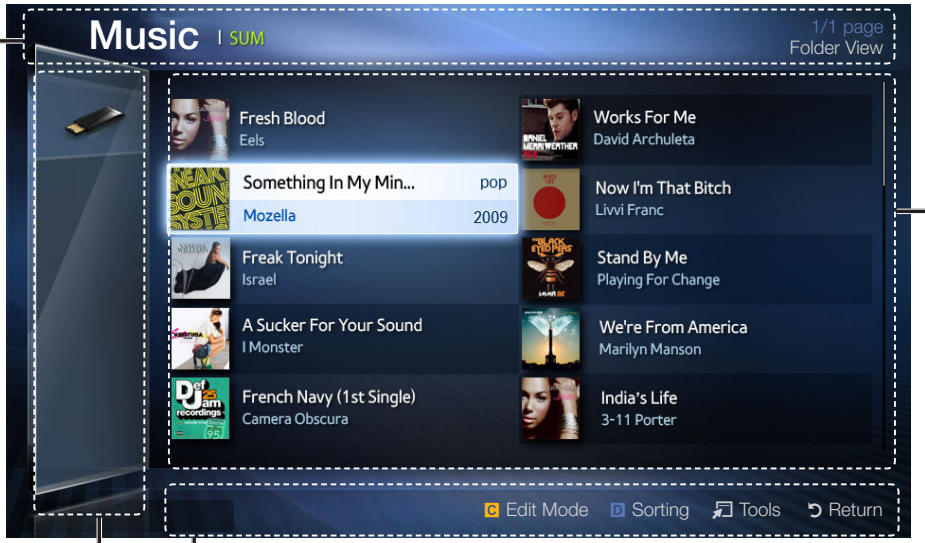
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.

- If the tv has no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- **My Contents** only supports sequential jpeg format.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

❑ Screen Display

Move to the desired file using the ◄/►/▲/▼ buttons and then press the **ENTER** ↵. The file is played. **My Contents** screen may differ depending on the way to enter the screen.

Information:
You can ascertain the selected device name, contents mode, folder/ file name, page and sorting list.



File List Section:
You can confirm the files and groups that are sorted by category.

Contents mode / Device name:
You can select the desired Contents mode or Device name.

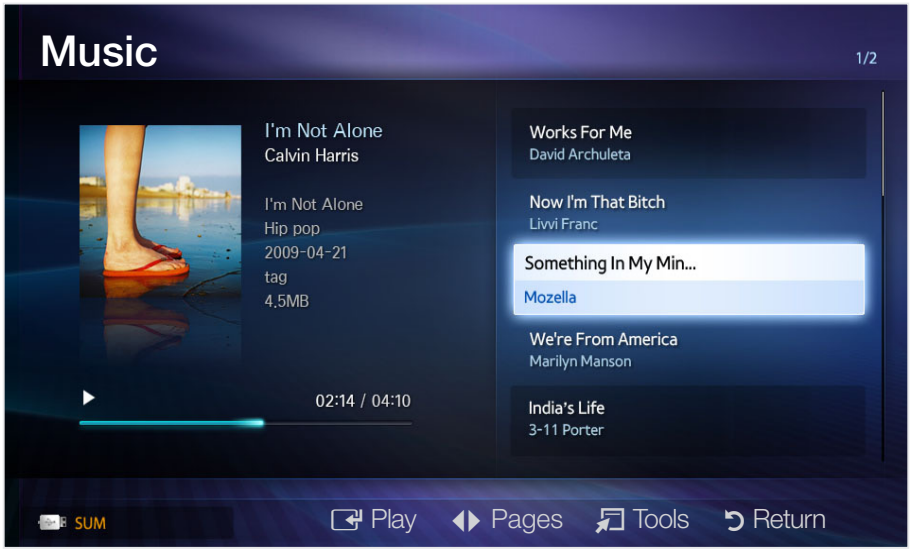
Operation Buttons:

- C Yellow (**Edit Mode**): Selects the desired music. The check box is shown in the screen to check the music you want. It is only available in Music.
- D Blue (**Sorting**): Selects the sort list.
- **Tools**: Displays the option menu.
- **Return**: Move to the previous step.
- **Select**: Select the contents in **Edit Mode**.

Music

Playing Music

1. Press the ◄/►/▲/▼ button to select the desired Music in the file list.
2. Press the **ENTER** ↵ button.



Only displays the files with MP3 file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

Playing the selected music

1. Press the C (Edit Mode) button.
2. Select the desired music.

   The check box appears to the left of the selected files.

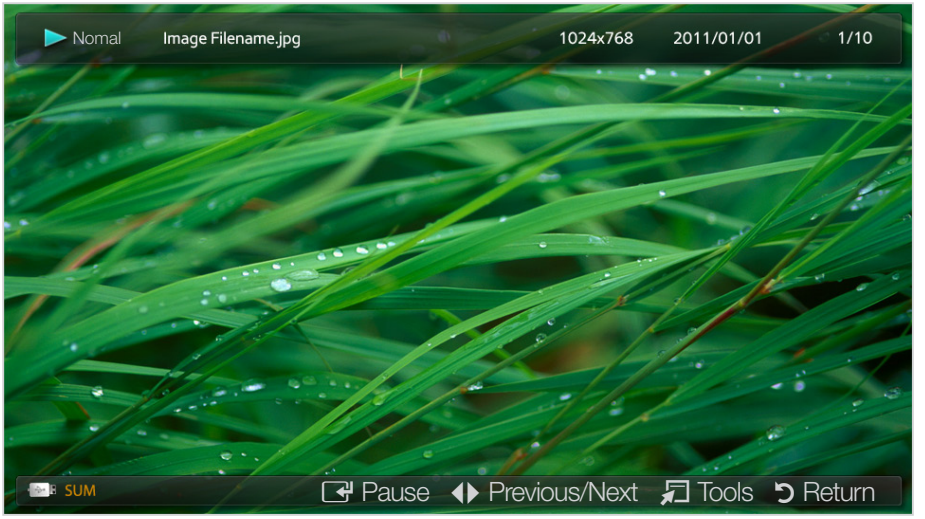
3. Press the **TOOLS** button and select **Play Selected Contents**.

   You can select or deselect all music pressing the **Select All/Deselect All**.

Photos

Viewing a Photo (or Slide Show)

1. Press the ◀/▶/▲/▼ button to select the desired photo in the file list.
2. Press the **ENTER** ↵ button.
   - When a selected photo is displayed, press the **ENTER** ↵ button to start the slide show.
   - During the slide show, all files in the file list will be displayed in order.



Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

❑ My Contents - Additional Functions

Music/Photos Play Option menu

During playing a file, press the **TOOLS** button.

Category	Operation	Music	Photos
Shuffle Mode	You can play the music randomly.	✓	
Repeat Mode	You can play music files repeatedly.	✓	
Picture Mode	You can adjust the picture setting.		✓
Sound Mode	You can adjust the sound setting.	✓	✓

Category	Operation	Music	Photos
Start Slide Show / Pause Slide Show	You can start or pause a Slide Show.		✓
Slide Show Speed	You can select the slide show speed during the slide show.		✓
Background Music	You can turn background music on and off when watching a slide show.		✓
Background Music Setting	You can select background music when watching a Slide Show.		✓

Category	Operation	Music	Photos
Zoom	You can zoom into images in full screen mode.		✓
Rotate	You can rotate images in full screen mode.		✓
Information	You can see detailed information about the played file.	✓	✓

❑ Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service.

Issues	Solutions and Explanations
Poor picture	First of all, please perform the **Picture Test** and confirm that your TV is properly displaying the test image. ● go to **MENU** - **Support - Self Diagnosis - Picture Test** If the test image is properly displayed, the poor picture may be caused by the source or signal.

Issues	Solutions and Explanations
The TV image does not look as good as it did in the store.	● If you have an analog Cable/Set top box, upgrade to a digital set top box. Use HDMI to deliver HD (high definition) picture quality. ● Cable/Satellite subscribers: Try HD stations from the channel line up. ● Air/Cable Antenna connection: Try HD stations after performing Auto program. Many HD channels are up scaled from SD(Standard Definition) contents. ● Adjust the Cable/Set top box video output resolution to 1080i or 720p.

Issues	Solutions and Explanations
The picture is distorted: macroblock error, small block, dots, pixelization.	• Compression of video contents may cause picture distortion, especially in fast moving pictures such as sports and action movies. • Low signal level can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (up to 3.3 ft) may cause noise in picture on analog and digital TV.

Issues	Solutions and Explanations
There is poor color or brightness.	• Adjust the Picture options in the TV menu. (go to **Picture Mode** / **Color** / **Brightness** / **Sharpness**) • Adjust **Energy Saving** option in the TV menu (go to **MENU** - **System** - **Eco Solution** - **Energy Saving**) • Try resetting the picture to view the default picture setting. (go to **MENU** - **Picture** - **Reset Picture**)
There is a dotted line on the edge of the screen.	• If the picture size is set to **Screen Fit**, change it to **16:9**. • Change cable/Set top box resolution.
The picture is black and white.	• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input on the TV.

Issues	Solutions and Explanations
When changing channels, the picture freezes or is distorted or delayed.	• If connected to a cable box, please try to reset it. (reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes) • Set output resolution of the cable box to 1080i or 720p.
Sound Problem	First of all, please perform the **Sound Test** to confirm that your TV audio is properly operating. • go to **MENU** - **Support** - **Self Diagnosis** - **Sound Test** If the audio is **OK**, the sound problem may caused by the source or signal.

Issues	Solutions and Explanations
There is no sound or the sound is too low at maximum volume.	• Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV.
The picture is good but there is no sound.	• If you are using a DVI to HDMI cable, TV set not support audio. • Reboot the connected device by reconnecting the device's power cable.

Issues	Solutions and Explanations
The speakers are making an inappropriate noise.	• For Antenna or Cable connections, check the signal information. Low signal level may cause sound distortion. • Perform the **Sound Test** as explained above.

Issues	Solutions and Explanations
No Picture, No Video	
The TV will not turn on.	• Make sure the AC power cord is securely plugged into the wall outlet and the TV. • Make sure the wall outlet is working. • Try pressing the **POWER** button on the TV to make sure the problem is not the remote control. If the TV turns on, refer to ‘Remote control does not work’ below.

Issues	Solutions and Explanations
The TV turns off automatically.	• Ensure the **Sleep Timer** is set to **Off** in the **System** menu. • If your PC is connected to the TV, check your PC power settings. • Make sure the AC power cord is plugged in securely to the wall outlet and the TV. • When watching TV from an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.

Issues	Solutions and Explanations
There is no picture/ video	● Check cable connections. (remove and reconnect all cables connected to the TV and external devices). ● Set your external device's (Cable/Set top box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. ● Make sure your connected devices are powered on. ● Be sure to select the TV's correct source by pressing the **SOURCE** button on the remote control. ● Reboot the connected device by reconnecting the device's power cable.

Issues	Solutions and Explanations
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	• Make sure the coaxial cable is connected securely. • Please try **Auto Program** to add available channels to the channel list. go to **MENU** - **Channel** - **Auto Program** then select **Auto** and make sure the correct Cable TV signal type is set in the menu. • Verify the Antenna is positioned correctly.
No Caption on digital channels.	Check Caption **System** menu. Some channels may not have caption data.

Issues	Solutions and Explanations
The picture is distorted: macroblock, error, small block, dots, pixelization.	• Compression of video contents may cause picture distortion. especially on fast moving pictures such as sports and action movies. • A low signal can cause picture distortion. This is not a TV problem.
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	• Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection.

Issues	Solutions and Explanations
The picture will not display in full screen.	• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars on Top & Bottom will be shown on movies that have aspect ratios different from your TV. • Adjust picture size option on your external device or TV to full screen.
The remote control does not work.	• Replace the remote control batteries with correct polarity (+/–). • Clean the transmission window located on the top of the remote control. • Try pointing the remote control directly at the TV from 5~6 feet away.

Issues	Solutions and Explanations
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	• Program the Cable/Set top box remote control to the operate the TV. Refer to the Cable/Set top box user manual for SAMSUNG TV code.
A "**Mode Not Supported**" message appears.	• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Caption on TV menu is greyed out.	• **Caption** can not be selected in the TV menu when connected via HDMI or Component. • **Caption** must be activated on the external device.
There is a plastic smell from the TV.	• This smell is normal and will dissipate over time.

Issues	Solutions and Explanations
TV **Signal Information** is unavailable in the **Self Diagnosis** Test menu.	• This function is only available with digital channels from an Antenna / RF / Coax connection.
TV is tilted to the right or left side.	• Remove the stand base from the TV and reassemble it.
The **Channel** menu is grey out (unavailable).	• The **Channel** menu is only available when the TV source is selected.

Issues	Solutions and Explanations
Your settings are lost after 30 minutes or every time the TV is turned off.	• If TV is in the **Store Demo** mode, it will reset audio and picture settings every 30 minutes. Please change from **Store Demo** mode to **Home Use** mode in the **Plug & Play** procedure. Press the **SOURCE** button to select **TV** mode, go to **MENU** → **System** → **Plug & Play** → **ENTER**↵.
You have intermittent loss of audio or video.	• Check the cable connections and reconnect them. • Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.

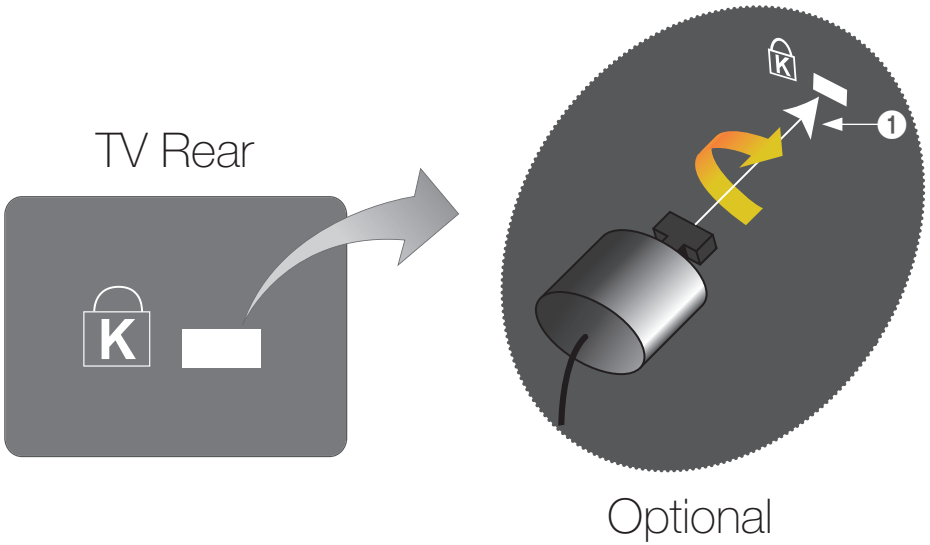
Issues	Solutions and Explanations
The **PIP** menu is not available.	• **PIP** functionality is only available when you are using a HDMI, HDMI/DVI or components source.
You see small particles when you look closely at the edge of the frame of the TV.	• This is part of the product's design and is not a defect.
POP (TV's internal banner ad) appears on the screen.	• Select **Home Use** under **Plug & Play** mode. For details, refer to **Plug & Play** (Initial Setup).

❑ Anti-theft Kensington Lock

(depending on the model)

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

- Please find a "🔒" icon on the rear of the TV. A kensington slot is beside the "🔒" icon.
- The position and color may differ depending on the model.



To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product (❶).
4. Lock the lock.

NOTE

- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington slot may be different depending on the TV model.

❑ License

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